



# Electronic Properties of Multilayers and Low-Dimensional Semiconductor Structures

Edited by  
J. M. Chamberlain  
L. Eaves and  
J.-C. Portal

NATO ASI Series

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Series B: Physics Vol. 231

# Electronic Properties Of Multilayers And Low Dimensional Semiconductor Structures

**Woo**



## **Electronic Properties Of Multilayers And Low Dimensional Semiconductor Structures:**

**Electronic Properties of Multilayers and Low-Dimensional Semiconductor Structures** J.M. Chamberlain, L. Eaves, J.C. Portal, 2012-12-06 This Advanced Study Institute on the Electronic Properties of Multilayers and Low Dimensional Semiconductor Structures focussed on several of the most active areas in modern semiconductor physics These included resonant tunnelling and superlattice phenomena and the topics of ballistic transport quantised conductance and anomalous magnetoresistance effects in laterally gated two dimensional electron systems Although the main emphasis was on fundamental physics a series of supporting lectures described the underlying technology Molecular Beam Epitaxy Metallo Organic Chemical Vapour Deposition Electron Beam Lithography and other advanced processing technologies Actual and potential applications of low dimensional structures in optoelectronic and high frequency devices were also discussed The ASI took the form of a series of lectures of about fifty minutes duration which were given by senior researchers from a wide range of countries Most of the lectures are recorded in these Proceedings The younger members of the Institute made the predominant contribution to the discussion sessions following each lecture and in addition provided most of the fifty five papers that were presented in two lively poster sessions The ASI emphasised the impressive way in which this research field has developed through the fruitful interaction of theory experiment and semiconductor device technology Many of the talks demonstrated both the effectiveness and limitations of semiclassical concepts in describing the quantum phenomena exhibited by electrons in low dimensional structures

Physics of Low-Dimensional Semiconductor Structures Paul N. Butcher, Norman H. March, Mario P. Tosi, 2013-11-11 Presenting the latest advances in artificial structures this volume discusses in depth the structure and electron transport mechanisms of quantum wells superlattices quantum wires and quantum dots It will serve as an invaluable reference and review for researchers and graduate students in solid state physics materials science and electrical and electronic engineering

Electronic Properties of Multilayers and Low-Dimensional Semiconductor Structures J.M. Chamberlain, L. Eaves, J.C. Portal, 1991-01-31 This Advanced Study Institute on the Electronic Properties of Multilayers and Low Dimensional Semiconductor Structures focussed on several of the most active areas in modern semiconductor physics These included resonant tunnelling and superlattice phenomena and the topics of ballistic transport quantised conductance and anomalous magnetoresistance effects in laterally gated two dimensional electron systems Although the main emphasis was on fundamental physics a series of supporting lectures described the underlying technology Molecular Beam Epitaxy Metallo Organic Chemical Vapour Deposition Electron Beam Lithography and other advanced processing technologies Actual and potential applications of low dimensional structures in optoelectronic and high frequency devices were also discussed The ASI took the form of a series of lectures of about fifty minutes duration which were given by senior researchers from a wide range of countries Most of the lectures are recorded in these Proceedings The younger members of the Institute made the predominant contribution to the discussion sessions following each lecture and in

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**Systems** Yoshimasa Murayama, 2008-09-26 Future high tech applications such as nanotechnology require a deep understanding of the physics of mesoscopic systems These systems form a bridge between macroscopic systems governed by classical physics and microscopic systems governed by quantum physics This introduction discusses a variety of typical surface optical transport and magnetic properties of mesoscopic systems with reference to many experimental observations It is written for physicists materials scientists and engineers who want to stay abreast of current research or high tech development Tunneling And Its Implications: Proceedings Of The Adriatico Research Conference D Mugnai, Anedio

Ranfagni, Lawrence S Schulman, 1997-04-19 The motion of a particle undergoing quantum tunneling has long been an open and debated problem in several aspects One of the most discussed is the determination of the time spent in such processes but many other features deserve consideration In this volume both theoretical and experimental aspects such as quantum measurement optical analogy experimental tests solid state devices and time scale for anomalies quantum Zeno effect and superluminal evanescence are explored *Tunneling And Its Implications* Adriatico Research Conference on Tunneling and Its Implications 1996, Trieste, Italy, D. Mugnai, 1997 The motion of a particle undergoing quantum tunneling has long been an open and debated problem in several aspects One of the most discussed is the determination of the time spent in such processes but many other features deserve consideration In this volume both theoretical and experimental aspects such as quantum measurement optical analogy experimental tests solid state devices and time scale for anomalies quantum Zeno effect and superluminal evanescence are explored Publisher's website Quantum Transport in Ultrasmall Devices David K.

Ferry, Harold L. Grubin, Carlo Jacoboni, A.-P. Jauho, 2012-12-06 The operation of semiconductor devices depends upon the use of electrical potential barriers such as gate depletion in controlling the carrier densities electrons and holes and their transport Although a successful device design is quite complicated and involves many aspects the device engineering is mostly to devise a best device design by defining optimal device structures and manipulating impurity profiles to obtain optimal control of the carrier flow through the device This becomes increasingly difficult as the device scale becomes smaller and smaller Since the introduction of integrated circuits the number of individual transistors on a single chip has doubled approximately every three years As the number of devices has grown the critical dimension of the smallest feature such as a gate length which is related to the transport length defining the channel has consequently declined The reduction of this design rule proceeds approximately by a factor of 1.4 each generation which means we will be using 0.1015  $\mu\text{m}$  rules for the 4 Gb chips a decade from now If we continue this extrapolation current technology will require 30 nm design rules and a cell

3 2 size     **Time in Quantum Mechanics** J.G. Muga, R. Sala Mayato, I.L. Egusquiza, 2003-07-01 Time and quantum mechanics have each of them separately captivated scientists and laymen alike as shown by the abundance of popular publications on time or on the many quantum mysteries or paradoxes. We too have been seduced by these two topics and in particular by their combination. Indeed the treatment of time in quantum mechanics is one of the important and challenging open questions in the foundations of quantum theory. This book describes the problems and the attempts and achievements in defining formalizing and measuring different time quantities in quantum theory such as the parametric clock time tunneling times decay times dwell times delay times arrival times or jump times. The theoretical analysis of several of these quantities has been controversial and is still subject to debate. For example there are literally hundreds of research papers on the tunneling time. In fact the standard recipe to link the observables and the formalism does not seem to apply at least in an obvious manner to time observables. This has posed the challenge of extending the domain of ordinary quantum mechanics.

Photonic Crystals and Light Localization in the 21st Century C.M. Soukoulis, 2012-12-06 This volume contains papers presented at the NATO Advanced Study Institute ASI Photonic Crystals and Light Localization held at the Creta Maris Hotel in Limin Hersonissou Crete June 18-30 2000. Photonic crystals offer unique ways to tailor light and the propagation of electromagnetic waves. EM in analogy to electrons in a crystal EM waves propagating in a structure with a periodically modulated dielectric constant are organized into photonic bands separated by gaps where propagating states are forbidden. There have been proposals for novel applications of these photonic band gap (PBG) crystals with operating frequencies ranging from microwave to the optical regime that include zero threshold lasers low loss resonators and cavities and efficient microwave antennas. Spontaneous emission suppressed for photons in the photonic band gap offers novel approaches to manipulate the EM field and create high efficiency light emitting structures. Innovative ways to manipulate light can have a profound influence on science and technology.

*Quantum Mechanics in Curved Space-Time* Jurgen Audretsch, V. de Sabbata, 2012-12-06 Quantum mechanics and quantum field theory on one hand and Gravity as a theory of curved space time on the other are the two great conceptual schemes of modern theoretical physics. For many decades they have lived peacefully together for a simple reason: it was a coexistence without much interaction. There has been the family of relativists and the other family of elementary particle physicists and both sides have been convinced that their problems have not very much to do with the problems of the respective other side. This was a situation which could not last forever because the two theoretical schemes have a particular structural trait in common: their claim for totality and universality. Namely on one hand all physical theories have to be formulated in a quantum mechanical manner and on the other hand gravity as curved space time influences all processes and vice versa. It was therefore only a question of time that physically relevant domains of application would attract a general interest which demands a combined application of both theoretical schemes. But it is immediately obvious that such an application of both schemes is possible if the schemes are taken as they are. Something new

is needed which reconciles gravity and quantum mechanics During the last two decades we are now doing the first steps towards this more general theory and we are confronted with fundamental difficulties

**Dynamics of Polyatomic Van der Waals Complexes** Nadine Halberstadt, Kenneth C. Janda, 2012-12-06 This publication is the Proceedings of the NATO Advanced Research Workshop ARW on the Dynamics of Polyatomic Van der Waals Molecules held at the Chateau de Bonas Castera Verduzan France from August 21 through August 26 1989 Van der Waals complexes provide important model problems for understanding energy transfer and dissipation These processes can be described in great detail for Van der Waals complexes and the insight gained from such studies can be applied to more complicated chemical problems that are not amenable to detailed study The workshop concentrated on the current questions and future prospects for extending our highly detailed knowledge of triatomic Van der Waals molecule dynamics to polyatomic molecules and clusters one molecule surrounded by several or up to several tens of atoms Both experimental and theoretical studies were discussed with particular emphasis on the dynamical behavior of dissociation as observed in the distributions of quantum states of the dissociation product molecules The discussion of theoretical approaches covered the range from complete ab initio studies with a rigorous quantum mechanical treatment of the dynamics to the empirical determination of potential energy surfaces and a classical mechanical treatment of the dynamics Time independent time dependent and statistical approaches were considered The workshop brought together experts from different fields which we hope benefited from their mutual interaction around the central theme of the Dynamics of Van der Waals complexes

**Hadrons and Hadronic Matter**

Dominique Vautherin, F. Lenz, J.W. Negele, 2012-12-06 Proceedings of a NATO ASI held in Cargese France August 8-18 1989

**Geometry and Thermodynamics** J.C. Tolédano, 2012-12-06 Distinct scientific communities are usually involved in the three fields of quasi crystals of liquid crystals and of systems having modulated crystalline structures However in recent years there has been a growing feeling that a number of common problems were encountered in the three fields These comprise the need to recur to exotic spaces for describing the type of order of the atomic or molecular configurations of these systems Euclidian superspaces of dimensions greater than 3 or 4 dimensional curved spaces the recognition that one has to deal with geometrically frustrated systems and also the occurrence of specific excitations static or dynamic resulting from the continuous degeneracies of the stable structures considered In the view of discussing these problems a NATO Advanced Research Workshop has assembled in Preveza Greece in September 1989 50 experts of the three considered fields with an equal proportion of theorists and experimentalists 35 hours of conferences and discussions have led to a more detailed evaluation of the similarities and of the differences in the approaches implemented in the studies of the three types of systems The papers contained in this NATO series book provide the substance of this workshop The reader will find three types of papers Some very short papers giving the main ideas stated on a subject Papers comprising 8-10 pages which stick closely to the contents of the talks presented Longer papers providing more extensively the background and results relative

to a given topic It is worth summarizing the principal outputs of the workshop

**Constructive Quantum Field Theory II** G. Velo, A.S. Wightman, 2012-12-06 The seventh Ettore Majorana International School of Mathematical Physics was held at the Centro della Cultura Scientifica Erice Sicily 15 July 1988 The present volume collects lecture notes on the session which was entitled Constructive Quantum Field Theory II The II refers to the fact that the first such school in 1973 was devoted to the same subject The school was a NATO Advanced Study Institute sponsored by the Italian Ministry of Scientific and Technological Research and the Regional Sicilian Government At the time of the 1973 Erice School on Constructive Field Theory the speakers could summarize a decade of effort on the solution of superrenormalizable models in two dimensional space time leading to the verification of the axioms of relativistic quantum field theory for these examples The resulting lecture notes have proved to be exceptionally useful and are still in print In the decade and a half that have lapsed since that time there has been much hard work with the ultimate objective of providing a rigorous mathematical foundation for the quantum field theories in four dimensional space time that summarize a large fraction of our current understanding of elementary particle physics QCD and the electroweak theory The lecture notes of the 1988 school record the fact that although this objective has not been reached Important progress has been made The ultraviolet stability of Yang Mills theory in four dimensions has been treated and renormalizable not superrenormalizable models in two dimensional space time Gross Neveu models have been solved

**Time in Quantum Mechanics** Gonzalo Muga, R. Sala Mayato, Inigo Egusquiza, 2007-12-07 The treatment of time in quantum mechanics is still an important and challenging open question in the foundation of the quantum theory This multi authored book written as an introductory guide for newcomers to the subject as well as a useful source of information for the expert covers many of the open questions The book describes the problems and the attempts and achievements in defining formalizing and measuring different time quantities in quantum theory

*Compound Semiconductors 1995, Proceedings of the Twenty-Second INT Symposium on Compound Semiconductors held in Cheju Island, Korea, 28 August-2 September, 1995* Woo, 1996-04-25 Compound Semiconductors 1995 focuses on emerging applications for GaAs and other compound semiconductors such as InP GaN GaSb ZnSe and SiC in the electronics and optoelectronics industries The book presents the research and development work in all aspects of compound semiconductors It reflects the maturity of GaAs as a semiconductor material and the rapidly increasing pool of research information on many other compound semiconductors Covering the full breadth of the subject from growth through processing to devices and integrated circuits this volume provides researchers in materials science device physics condensed matter physics and electrical and electronic engineering with a comprehensive overview of developments in this well established research area

**Scanning Tunneling Microscopy III** Roland Wiesendanger, Hans-Joachim Güntherodt, 2013-03-07 Scanning Tunneling Microscopy III provides a unique introduction to the theoretical foundations of scanning tunneling microscopy and related scanning probe methods The different theoretical concepts developed in the past are outlined and the implications of the

theoretical results for the interpretation of experimental data are discussed in detail Therefore this book serves as a most useful guide for experimentalists as well as for theoreticians working in the field of local probe methods In this second edition the text has been updated and new methods are discussed      **Radiative Corrections** N. Dombey,F. Boudjema,2012-12-06 The Workshop on Radiative Corrections Results and Perspectives was held at the University of Sussex in fine weather between July 9 and 14 1989 The Workshop was well timed the day after its concluding session the first beam at LEP was circulated The Original aims of the Workshop were twofold first to review the existing theoretical work on electroweak radiative corrections in the light of the initial experiments at SLC and LEP and to attempt to obtain a consensus on the best means of carrying out the calculations of the various processes This aim became Working Group A on Renormalisation Schemes tor Electroweak Radiative Corrections The second aim was to review the experimental implementation of radiative corrections and this became Working Group B Here the problem was to obtain a consensus on the use of Monte Carlo event generators At the time March 1987 when Friedrich Dydak wrote to one of us ND to suggest a Workshop on the subject of electroweak radiative corrections to take place just before experiments at LEP were to begin the main theoretical problem was that there was no agreement among theorists on the use of a specific renormalization scheme Similarly it was already becoming clear that it was going to be very difficult to compare the experimental results of different groups because they would use different event generators and experimental cuts of their data      **Physics Briefs** ,1992

**Proceedings of the Second International Symposium on Electrochemical Processing of Tailored Materials** R. C. Alkire,1993



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